


1/10

# SOFTWARE RELEASE NOTICE


1. SRN Number: <i>MGFE-SRN-240</i>		
2. Project Title: <b>Repository Design and Thermal-Mechanical Effects</b>		Project No. <b>20.01402.671</b>
3. SRN Title: <b>ABAQUS Version 6.1</b>		
4. Originator/Requestor: <b>Bruce Mabrito</b>		Date: <b>02/19/2001</b>
5. Summary of Actions  <input type="checkbox"/> Release of new software  <input checked="" type="checkbox"/> Release of modified software:  <input checked="" type="checkbox"/> Enhancements made  <input type="checkbox"/> Corrections made  <input type="checkbox"/> Change of access software  <input checked="" type="checkbox"/> Software Retirement <i>SEM 8/16/2001</i>		
6. Persons Authorized Access		
Name	Read Only/Read-Write	Addition/Change/Delete
Goodluck Ofoegbu	Read Only	Change
Doug Gute	Read Only	Change
Amitava Ghosh	Read Only	Change
Simon Hsiung	Read Only	Change
Biswajit Dasgupta	Read Only	Change
7. Element Manager Approval: <i>[Signature]</i>		Date: <i>2-20-01</i>
8. Remarks: Access is not limited for commercial software. <i>NOTE THAT THE DESIGN VERIFICATION REPORT WAS COMPLETED BY B. MABRITO AND G. OFOEGBU ON 2/21/2001. SEM [Signature]</i>		

2-22-2001

# SOFTWARE RELEASE NOTICE

1. SRN Number: <b>MGFE-SRN-<del>191</del> 240</b>		
2. Project Title: <b>Repository Design &amp; Thermal-Mechanical Effects</b>		Project No.: <b>20-1402-671</b>
3. SRN Title: <b>ABAQUS/Pre Version 6.1</b>		
4. Originator/Requestor: <b>Bruce Mabrito</b>		Date: <b>08/15/2001</b>
5. Summary of Actions  <input type="checkbox"/> Release of new software  <input type="checkbox"/> Release of modified software: <input type="checkbox"/> Enhancements made <input type="checkbox"/> Corrections made  <input type="checkbox"/> Change of access software  <input checked="" type="checkbox"/> Software Retirement		
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Amitava Ghosh	Read Only	Change
Simon Hsiung	Read Only	Change
Biswajit Dasgupta	Read Only	Change
7. Element Manager Approval: 		Date: <b>8-16-01</b>

## SOFTWARE SUMMARY FORM

01. Summary Date: <b>02/19/2001</b>	02. Summary prepared by (Name and phone) <b>Bruce Mabrito, (210) 522-5149</b>	03. Summary Action:  <b>New</b>	
04. Software Date: <b>02/19/2001</b>	05. Short Title: <b>ABAQUS Version 6.1</b>		
06. Software Title: <b>ABAQUS Version 6.1</b>		07. Internal Software ID: <b>NONE</b>	
08. Software Type:  <input type="checkbox"/> Automated Data System  <input checked="" type="checkbox"/> Computer Program  <input type="checkbox"/> Subroutine/Module	09. Processing Mode:  <input checked="" type="checkbox"/> Interactive  <input checked="" type="checkbox"/> Batch  <input type="checkbox"/> Combination	10. Application Area  a. General: <input checked="" type="checkbox"/> Scientific/Engineering <input type="checkbox"/> Auxiliary Analyses <input type="checkbox"/> Total System PA <input type="checkbox"/> Subsystem PA <input type="checkbox"/> Other  b. Specific:	
11. Submitting Organization and Address:  <b>CNWRA/SwRI 6220 Culebra Road San Antonio, TX 78228</b>		12. Technical Contact(s) and Phone:  <b>Goodluck Ofoegbu (210) 522-6641 Doug Gute (210) 522-2307</b>	
13. Software Application: <b>Used for thermal and mechanical modeling</b>			
14. Computer Platform <b>"Pluto" Server (Silicon Graphics)</b>	15. Computer Operating System: <b>IRIS 6.5</b>	16. Programming Language(s): <b>FORTRAN</b>	17. Number of Source Program Statements: <b>N/A</b>
18. Computer Memory Requirements: <b>N/A</b>	19. Tape Drives: <b>NONE</b>	20. Disk Units: <b>N/A</b>	21. Graphics: <b>XWINDOW System</b>
22. Other Operational Requirements  <b>NONE</b>			
23. Software Availability: <input type="checkbox"/> Available <input checked="" type="checkbox"/> Limited <input type="checkbox"/> In-House ONLY		24. Documentation Availability: <input checked="" type="checkbox"/> Available <input type="checkbox"/> Preliminary <input type="checkbox"/> In-House ONLY	
25. Software Developer/Contact Person:  Date: <b>2/20/2001</b>			

3/10

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES  
DESIGN VERIFICATION REPORT FOR CNWRA SOFTWARE

ACQUIRED CODE - NOT TO BE MODIFIED<sup>1</sup>

Software Title/Name: ABAQUS Version 6.1

Version: 6.1

Demonstration workstation: "CALIB" - Bldg 189, Room A112 - logged into server

Operating System: UNIX - specifically IRIX 6.5 2/21/2001 "Pluto"

Developer: Hibbitt, Karlsson & Sorensen, Inc.  
Pawtucket, RI

1. Output: TOP-018, Section 5.5.4

Software designed so that individual runs are uniquely identified by Date, Time, Name of software and version?

Yes: ☒ No: ☐ N/A: ☐

Date and time of run: Accept "As is" per instructions.

Name and version: \_\_\_\_\_

Notes: Acquired code that is not to be modified is accepted as is.

2. Medium and Header Documentation: TOP-018, Section 5.5.6

The physical labeling of software medium (tapes, disks, etc.) contain required information?

Yes: ☒ No: ☐ N/A: ☐

Program Name: yes - ABAQUS

Module/Name/Title: Version 6.1 - SGI 32 bit / SGI 64 bit

Module Revision: 6.1

File Type (ASCII, OBJ, EXE): Executable code only

Recording Date: 3000 6m 2/22/2001

Operating System of Supporting Hardware: SGI-IRIX 64

Notes: Acquired code that is not to be modified may not have all above elements.

<sup>1</sup> See TOP-018, Table 1 for criteria.

4/10

**DESIGN VERIFICATION REPORT FOR CNWRA SOFTWARE  
ACQUIRED CODE - NOT TO BE MODIFIED**

**3. User's Manual: TOP-018, Section 5.5.5**

a) Is there a Users' Manual for the software?

Yes: ☒ No: ☐ N/A: ☐

User's Manual Version and Date: 6.1 - year 2000

Notes: Kept in A112 Room of Bldg 189.

b) Are there basic instructions for the use of the software?

Yes: ☒ No: ☐ N/A: ☐

Location of Instruction: In Users Manual -

Notes: in Bldg 189, Room A112.

**4. Acceptance Testing: TOP-018, Section 5.6**

a) Has installation testing been conducted for each intended computer platform and operating system?

Yes: ☒ No: ☐ N/A: ☐

Platform(s): Tested on Auto Server

Operating System(s): TRIX.

Location of Test Results: IN This folder.

Notes:

**5. Configuration Control: TOP-018, Section 5.7**

a) Is the Software Summary Form completed and signed?

Yes: ☒ No: ☐ N/A: ☐

Software Summary Form Approval Date: 2/20/2001

Notes:

b) Is a software technical description prepared, documenting the essential mathematical and numerical basis?

Yes: ☒ No: ☐ N/A: ☐

Location Technical Description: in Users Manual - in Bldg 189 Room A112.

Notes:

c) Is the source code available (or, is the executable code available in the case of (acquired/commercial codes)?

Yes: ☐ No: ☒ N/A: ☐

Location of Source Code: With company that developed code -

Notes:

CNWR has only executable which is leased annually.

**DESIGN VERIFICATION REPORT FOR CNWRA SOFTWARE  
ACQUIRED CODE - NOT TO BE MODIFIED**

**6. Configuration Control, continued: TOP-018, Section 5.7**

Have all the script/make files and executable files been submitted to the Software Custodian?

Yes: ☒ No: ☐ N/A: ☐

Location of Script/Make Files: in CNWRA QA Records Room  
in Bldg 189.

Notes:

**7. Software Release: TOP-018, Section 5.9**

Upon acceptance of the software as verified above, has a Software release Notice, Form TOP-6 been issued?

Yes: ☒ No: ☐ N/A: ☐

Version number on software (1.0 for 1<sup>st</sup> issue): 6.1 on this software

Version number on SRN: Version 6.1

Notes:

**8. Software Validation: TOP-018, Section 5.10**

a) Has a Software Validation Test Plan (SVTP) been prepared for the range of application of the software?

Yes: ☐ No: ☒ N/A: ☐

Version/Date of SVTP: performed by developer

Date reviewed and approved via QAP-002: N/A

Notes:

b) Has a Software Validation Test Report (SVTR) been prepared that documents the results of the validation cases, interpretation of the results, and determination if the software has been validated?

Yes: ☐ No: ☒ N/A: ☐

Version/Date of SVTR: performed by developer

Date reviewed and approved via QAP-002: N/A

Notes:

Additional Remarks:

[Signature]  
CNWRA Software Developer/Date  
Contact Person  
2/21/2001

[Signature] 2/22/2001  
CNWRA Software Custodian/Date

5/10  
PLUTO.ofoegbu: abaqus58 post restart=dm501  
ABAQUS Warning: Your ABAQUS license will expire in 7 days  
Please contact your local ABAQUS support office to renew your license.  
Old journal file exists. Overwrite? (y/n): y  
ABAQUS JOB abaqus  
Wed Feb 21 16:48:04 CST 2001  
The ABAQUS License Manager checked out one license  
from the license server on pluto  
(0 out of 1 licenses remain available).  
ABAQUS Warning: Your ABAQUS license will expire in 7 days  
Please contact HKS to renew your license.

\*\*\*NOTE: YOUR POST LICENSE WILL EXPIRE ON 2/28/2001. POST JOBS WILL NO LONGER  
RUN AFTER THIS DATE. PLEASE RENEW YOUR POST LICENSE IMMEDIATELY.

\*\*\*\*\*

ON MACHINE pluto.  
YOU ARE AUTHORIZED TO RUN  
POST UNTIL FEB. 28, 2001

YOUR SITE ID IS: 08SRI2

\*\*\*\*\*

FOR USE BY Southwest Research Institute UNDER LICENSE FROM HKS, INC.

ABAQUS/Post Version 5.8-16

Reading restart file : dm501

ABAQUS Version: 5.8-16

Date: 24-AUG-2000

Time: 16:15:46

No. of elements	:	2449
No. of nodes	:	7580
No. of element sets	:	10
No. of node sets	:	7

*This shows typical output and this is Version 5.8 of ABAQUS, NOT  
Version 6.1. Version 6.1 has these same features, and this is evidence  
of capability. Since made 2/21/2001.*

6/10  
\*\*\*NOTE: YOUR POST LICENSE WILL EXPIRE ON 2/28/2001. POST JOBS WILL NO LONGER  
RUN AFTER THIS DATE. PLEASE RENEW YOUR POST LICENSE IMMEDIATELY.

\*\*\*\*\*

ON MACHINE pluto.  
YOU ARE AUTHORIZED TO RUN  
POST UNTIL FEB. 28, 2001

YOUR SITE ID IS: 08SRI2

\*\*\*\*\*

FOR USE BY Southwest Research Institute UNDER LICENSE FROM HKS, INC.

ABAQUS/Post Version 5.8-16

Reading restart file : dm501

ABAQUS Version: 5.8-16

Date: 24-AUG-2000

Time: 16:15:46

No. of elements	:	2449
No. of nodes	:	7580
No. of element sets	:	10
No. of node sets	:	7

Reading element data...

Reading node data...

Reading element sets...

Reading node sets...

Restart file = dm501

Current step/inc = 3 / 44

Wed Feb 21 16:53:12 CST 2001

ABAQUS JOB abaqus COMPLETED

PLUTO.ofoegbu: ■



# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

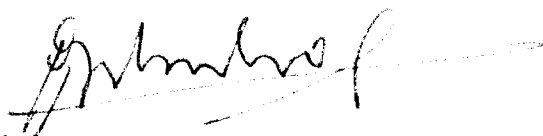
## MEMORANDUM

February 20, 2001

**TO:** Bruce Mabrito

**FROM:** Goodluck Ofoegbu

**SUBJECT:** ABAQUS 6.1 Installation



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ABAQUS 6.1, the latest update of the ABAQUS analysis software, has been installed on the CNWRA Silicon Graphics computer platform named "Pluto." The installation was performed in my presence by Jose DeLaEspriella who conducted the standard installation-verification tests supplied by the vendor. The result of the verification tests (Attachment 1) show that the software has been installed properly. Thank you.

ABAQUS Product Install Verification...

Mon Feb 19 10:55:00 2001

Making /verify. All verification files will reside in this directory.

-----  
-----  
ABAQUS/Standard

...PASS

Continuing...

-----  
-----  
ABAQUS/Standard w/User Subroutines

...PASS

Continuing...

-----  
-----  
ABAQUS/Explicit (single precision)

...PASS

Continuing...

-----  
-----  
ABAQUS/Explicit (double precision)

...PASS

Continuing...

-----  
-----  
ABAQUS/Explicit w/User Subroutines (single precision)

...PASS

Continuing...

-----  
-----  
ABAQUS/Explicit w/User Subroutines (double precision)

...PASS

Continuing...

Acceptance Testing  
by CNWRA.

-----  
-----  
ABAQUS/Viewer

...PASS

Continuing...

-----  
-----  
ABAQUS/CAE

...PASS

Continuing...

-----  
-----  
ABAQUS/ADAMS

...WARNING

Product is not licensed, verification procedure will be  
skipped.

Continuing...

-----  
-----  
ABAQUS/C-MOLD

...WARNING

Product is not licensed, verification procedure will be  
skipped.

Continuing...

-----  
-----  
ABAQUS/Standard Parametric Study

...PASS

Continuing...

-----  
-----  
ABAQUS/Explicit Parametric Study

...PASS

Continuing...

-----  
-----  
ABAQUS/Design

...WARNING

Product is not licensed, verification procedure will be  
skipped.

Continuing...

-----  
-----  
Clean-up...

Verification directory /verify has been deleted.